### WHAT IS CLAIMED IS:

### A compound of the Formula (I): 1.

 $NH_2$ 

**(I)** 

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wherein:

X is -CHR3-, -CHR3-alkyl-, or -CHR3-alkenyl-;

 $\mathbf{R}_1$  is selected from the group consisting of:

-alkenyl;

-aryl; and

-R<sub>4</sub>-aryl;

 $\mathbf{R_2}$  is selected from the group consisting of:

-hydrogen;

-alkyl;

-alkenyl;

-aryl;

-heteroaryl;

-heterocyclyl;

-alkyl-Y-alkyl;

-alkyl-Y- alkenyl;

-alkyl-Y-aryl; and

- alkyl or alkenyl substituted by one or more substituents selected from the group consisting of:

-OH;

-halogen;

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 $-N(R_3)_2;$  $-CO-N(R_3)_2;$ -CO-C<sub>1-10</sub> alkyl; -CO-O- $C_{1-10}$  alkyl; 5  $-N_3$ ; -aryl; -heteroaryl; -heterocyclyl; -CO-aryl; and -CO-heteroaryl; 10 R4 is alkyl or alkenyl, which may be interrupted by one or more -O- groups; each  $R_3$  is independently H or  $C_{1-10}$  alkyl; each Y is independently -O- or  $-S(O)_{0-2}$ ; 15 n is 0 to 4; and each R present is independently selected from the group consisting of C<sub>1-10</sub> alkyl, C<sub>1-10</sub> alkoxy, hydroxy, halogen and trifluoromethyl; or a pharmaceutically acceptable salt thereof. 20 A compound or salt of claim 1 wherein  $R_1$  is -alkyl-aryl. 2. A compound or salt of claim 1 wherein  $R_1$  is  $-(CH_2)_{0-3}$ -phenyl. 3. A compound or salt of claim 1 wherein  $R_1$  is  $-(CH_2)_{0.3}$ -substituted phenyl. 25 4. A compound or salt of claim 1 wherein X is -CH(alkyl)-alkyl- wherein the alkyl 5. groups can be the same or different. 30 6. A compound or salt of claim 1 wherein X is -CH<sub>2</sub>-CH<sub>2</sub>-, -CH<sub>2</sub>-CH<sub>2</sub>-, or

 $-CH_2-CH_2-CH_2-CH_2-$ .

- 7. A compound or salt of claim 1 wherein X is  $-CH(C_2H_5)-CH_2-$ .
- 8. A compound or salt of claim 1 wherein R<sub>2</sub> is H.
- 5 9. A compound or salt of claim 1 wherein R<sub>2</sub> is alkyl.
  - 10. A compound or salt of claim 1 wherein R<sub>2</sub> is -alkyl-O-alkyl.
  - 11. A compound of the Formula (II)

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(II)

wherein

X is -CHR<sub>3</sub>-, -CHR<sub>3</sub>-alkyl-, or -CHR<sub>3</sub>-alkenyl-;

 $\mathbf{R}_{\mathbf{10}}$  is selected from the group consisting of:

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-H;

-alkyl;

-alkylaryl;

-alkenyl; and

-aryl;

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R<sub>2</sub> is selected from the group consisting of:

-hydrogen;

-alkyl;

-alkenyl;

-aryl;

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-heteroaryl;

-heterocyclyl;

-alkyl-Y-alkyl;

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-alkyl-Y-alkenyl;
                                 -alkyl-Y-aryl; and
                                 -alkyl or alkenyl substituted by one or more substituents selected
                                 from the group consisting of:
                                         -OH;
 5
                                         -halogen;
                                         -N(R_3)_2;
                                         -CO-N(R_3)_2;
                                         -CO-C<sub>1-10</sub> alkyl;
                                         -CO-O-C<sub>1-10</sub> alkyl;
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                                          -N_3;
                                          -aryl;
                                          -heteroaryl;
                                          -heterocyclyl;
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                                          -CO-aryl; and
                                          -CO-heteroaryl;
                          n is 0 to 4;
                          each Y is independently -O- or -S(O)_{0-2};
                          each R<sub>3</sub> is independently H or C<sub>1-10</sub> alkyl; and
                          each R present is independently selected from the group consisting of C<sub>1-10</sub>
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                          alkyl, C<sub>1-10</sub> alkoxy, hydroxy, halogen and trifluoromethyl;
                          or a pharmaceutically acceptable salt thereof.
          12.
                  A compound of claim 11 wherein R_{10} is aryl.
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          13.
                  A compound or salt of claim 11 wherein R_{10} is -(CH_2)_{0-3}—phenyl.
          14.
                  A compound or salt of claim 11 wherein R_{10} is -(CH_2)_{0-3}-substituted phenyl.
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                   A compound or salt of claim 11 wherein X is -CH(alkyl)-alkyl-, wherein the alkyl
          15.
          groups can be the same or different.
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- 16. A compound or salt of claim 11 wherein X is -CH<sub>2</sub>-CH<sub>2</sub>-, -CH<sub>2</sub>-CH<sub>2</sub>-, or -CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-.
- 17. A compound or salt of claim 11 wherein X is  $-CH(C_2H_5)-CH_2-$ .
- 18. A compound or salt of claim 11 wherein R<sub>2</sub> is H.
  - 19. A compound or salt of claim 11 wherein  $R_2$  is alkyl.
- 20. A compound or salt of claim 11 wherein R<sub>2</sub> is alkyl-O-alkyl.
  - 21. A compound of the Formula (III)

$$NH_2$$
 $NH_2$ 
 $N$ 
 $R_2$ 
 $X-O-R_1$ 
(III)

wherein:

X is -CHR3-, -CHR3-alkyl-, or -CHR3-alkenyl-;

 $\mathbf{R_1}$  is selected from the group consisting of:

-aryl;

-alkenyl; and

-R<sub>4</sub>-aryl;

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 $\mathbf{R}_2$  is selected from the group consisting of:

-hydrogen;

-alkyl;

-alkenyl;

-aryl;

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-heteroaryl;

-heterocyclyl;

-alkyl-Y-alkyl;

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-alkyl-Y-aryl;
                                 - alkyl-Y- alkenyl; and
                                 - alkyl or alkenyl substituted by one or more substituents selected
                                 from the group consisting of:
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                                          -OH;
                                          -halogen;
                                          -N(R_3)_2;
                                          -CO-N(R_3)_2;
                                          -CO-C<sub>1-10</sub> alkyl;
                                          -CO-O-C<sub>1-10</sub> alkyl;
10
                                          -N_3;
                                          -aryl;
                                          -heteroaryl;
                                          -heterocyclyl;
                                          -CO-aryl; and
15
                                          -CO-heteroaryl;
                          R<sub>4</sub> is alkyl or alkenyl, which may be interrupted by one or more
                          -O- groups;
                          each R_3 is independently H or C_{1-10} alkyl;
                          each Y is independently -O- or -S(O)_{0-2};
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                          n is 0 to 4; and
                          each {\bf R} present is independently selected from the group consisting of C_{1\text{-}10}
                          alkyl, C<sub>1-10</sub> alkoxy, hydroxy, halogen and trifluoromethyl;
                           or a pharmaceutically acceptable salt thereof.
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          22.
                  A compound or salt of claim 21 wherein R_1 is -(CH_2)_{0-3}—substituted phenyl.
          23.
                   A compound or salt of claim 21 wherein R<sub>2</sub> is H or alkyl.
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                   A compound or salt of claim 21 wherein R<sub>2</sub> is -alkyl-O-alkyl.
          24.
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## 25. A compound of the Formula (IV):

$$R_n$$
 $NH_2$ 
 $N$ 
 $R_2$ 
 $X-O-(CH_2)_{1-10}$ 
 $C \equiv CR_{10}$ 
 $(IV)$ 

5 wherein: X is -CHR<sub>3</sub>-, -CHR<sub>3</sub>-alkyl-, or -CHR<sub>3</sub>-alkenyl-;

 $R_{10}$  is selected from the group consisting of:

-H;

-alkyl;

-alkylaryl;

-alkenyl; and

-aryl;

R<sub>2</sub> is selected from the group consisting of:

-hydrogen;

-alkyl;

-alkenyl;

-aryl;

-heteroaryl;

-heterocyclyl;

-alkyl-Y-alkyl;

-alkyl-Y-aryl;

-alkyl-Y- alkenyl; and

- alkyl or alkenyl substituted by one or more substituents selected from the group consisting of:

-OH;

-halogen;

 $-N(R_3)_2;$ 

 $-CO-N(R_3)_2;$ 

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-CO- $C_{1-10}$  alkyl; -CO-O-C<sub>1-10</sub> alkyl;  $-N_3$ ; -aryl; -heteroaryl; 5 -heterocyclyl; -CO-aryl; and -CO-heteroaryl; each R<sub>3</sub> is independently H or C<sub>1-10</sub> alkyl; each Y is independently -O- or -  $S(O)_{0-2}$ -; 10 n is 0 to 4; and each R present is independently selected from the group consisting of C<sub>1-10</sub> alkyl, C<sub>1-10</sub> alkoxy, hydroxy, halogen and trifluoromethyl; or a pharmaceutically acceptable salt thereof.

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- 26. A pharmaceutical composition comprising a therapeutically effective amount of a compound or salt of claim 1 and a pharmaceutically acceptable carrier.
- 27. A pharmaceutical composition comprising a therapeutically effective amount of a compound or salt of claim 11 and a pharmaceutically acceptable carrier.
  - 28. A pharmaceutical composition comprising a therapeutically effective amount of a compound or salt of claim 21 and a pharmaceutically acceptable carrier.
- 25 29. A method of inducing cytokine biosynthesis in an animal comprising administering a therapeutically effective amount of a compound or salt of claim 1 to the animal.
  - 30. The method of claim 29 wherein the cytokine is IFN- $\alpha$ .
- 30 31. A method of inducing cytokine biosynthesis in an animal comprising administering a therapeutically effective amount of a compound or salt of claim 11 to the animal.

- 32. The method of claim 31 wherein the cytokine is IFN- $\alpha$ .
- 33. A method of treating a viral disease in an animal comprising administering a therapeutically effective amount of a compound or salt of claim 1 to the animal.
- 34. A method of treating a neoplastic disease in an animal comprising administering a therapeutically effective amount of a compound or salt of claim 1 to the animal.
- 35. A method of treating a viral disease in an animal comprising administering a therapeutically effective amount of a compound or salt of claim 11 to the animal.
  - 36. A method of treating a neoplastic disease in an animal comprising administering a therapeutically effective amount of a compound or salt of claim 11 to the animal.
- 15 37. A method of inducing cytokine biosynthesis in an animal comprising administering a theraputically effective amount of a compound or salt of claim 21 to the animal.
  - 38. The method of claim 37 wherein the cytokine is IFN- $\alpha$ .
- 20 39. A method of treating a viral disease in an animal comprising administering a therapeutically effective amount of a compound or salt of claim 21 to the animal.
  - 40. A method of treating a neoplastic disease in an animal comprising administering a therapeutically effective amount of a compound or salt of claim 21 to the animal.

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## 41. A compound of the Formula (V):

$$R_0$$
 $N$ 
 $R_2$ 
 $X-O-R_1$ 

(V)

5 wherein

X is -CHR<sub>3</sub>-, -CHR<sub>3</sub>-alkyl-, or -CHR<sub>3</sub>-alkenyl-;

R<sub>1</sub> is selected from the group consisting of:

-aryl;

-alkenyl;

-R4-aryl; and

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 $-(CH_2)_{1-10}-C = \mathbb{C}-R_{10};$ 

R<sub>2</sub> is selected from the group consisting of:

-hydrogen;

-alkyl;

-alkenyl;

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-aryl;

-heteroaryl;

-heterocyclyl;

-alkyl-Y-alkyl;

-alkyl-Y-alkenyl;

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-alkyl-Y-aryl; and

- alkyl or alkenyl substituted by one or more substituents selected

from the group consisting of:

-OH;

-halogen;

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 $-N(R_3)_2;$ 

 $-CO-N(R_3)_2;$ 

-CO-C<sub>1-10</sub> alkyl;

-CO-O-C<sub>1-10</sub> alkyl;

 $-N_3$ ;

-aryl;

-heteroaryl;

-heterocyclyl;

-CO-aryl; and

-CO-heteroaryl;

R4 is alkyl or alkenyl, which may be interrupted by one or more

-O- groups;

each R<sub>3</sub> is independently H or C<sub>1-10</sub> alkyl;

 $\mathbf{R}_{10}$  is selected from the group consisting of H, alkyl, alkenyl, aryl, and

10 -alkylaryl;

each Y is independently -O- or -S(O)<sub>0-2</sub>-;

n is 0 to 4; and

each  $\bf R$  present is independently selected from the group consisting of  $C_{1-10}$  alkyl,  $C_{1-10}$  alkoxy, hydroxy, halogen and trifluoromethyl;

or a pharmaceutically acceptable salt thereof.

42. A compound of the Formula (VI):

$$N$$
 $N$ 
 $R_2$ 
 $X-O-R_1$ 
(VI)

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wherein X is -CHR<sub>3</sub>-, -CHR<sub>3</sub>-alkyl-, or -CHR<sub>3</sub>-alkenyl-;

 $\mathbf{R}_1$  is selected from the group consisting of:

-aryl;

-alkenyl;

 $-R_4$ -aryl; and

 $-(CH_2)_{1-10}-C = \mathbb{C}-R_{10};$ 

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R<sub>2</sub> is selected from the group consisting of:
                                 -hydrogen;
                                 -alkyl;
                                  -alkenyl;
                                  -aryl;
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                                  -heteroaryl;
                                  -heterocyclyl;
                                  -alkyl-Y-alkyl;
                                  -alkyl-Y-alkenyl;
                                  -alkyl-Y-aryl; and
10
                                  - alkyl or alkenyl substituted by one or more substituents selected
                                  from the group consisting of:
                                           -OH;
                                           -halogen;
                                           -N(R_3)_2;
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                                           -CO-N(R_3)_2;
                                            -CO-C<sub>1-10</sub> alkyl;
                                            -CO-O-C<sub>1-10</sub> alkyl;
                                            -N_3;
                                            -aryl;
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                                            -heteroaryl;
                                            -heterocyclyl;
                                            -CO-aryl; and
                                            -CO-heteroaryl;
                            R4 is alkyl or alkenyl, which may be interrupted by one or more
 25
                            -O- groups;
                            each R<sub>3</sub> is independently H or C<sub>1-10</sub> alkyl;
                            \mathbf{R}_{10} is selected from the group consisting of H, alkyl, alkenyl, aryl,
                            -alkylaryl;
                            each Y is independently -O or -S(O)_{0-2};
  30
                            \mathbf{n} is 0 to 4; and
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each R present is independently selected from the group consisting of  $C_{1-10}$  alkyl,  $C_{1-10}$  alkoxy, hydroxy, halogen and trifluoromethyl; or a pharmaceutically acceptable salt thereof.

# 5 43. A compound of the Formula (VII):

$$\begin{array}{c}
O \\
N \\
N \\
N \\
X-O-R_1
\end{array}$$

(VII)

wherein:

X is -CHR<sub>3</sub>-, -CHR<sub>3</sub>-alkyl-, or -CHR<sub>3</sub>-alkenyl-;

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 $\mathbf{R}_1$  is selected from the group consisting of:

-aryl;

-alkenyl;

-R<sub>4</sub>-aryl; and

 $-(CH_2)_{1-10}-C = C-R_{10};$ 

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R4 is alkyl or alkenyl, which may be interrupted by one or more

-O- groups;

each  $R_3$  is independently H or  $C_{1-10}$  alkyl;

 $\mathbf{R}_{10}$  is selected from the group consisting of H, alkyl, alkenyl, aryl, and -alkylaryl;

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n is 0 to 4; and

each  $\mathbf{R}$  present is independently selected from the group consisting of  $C_{1-10}$  alkyl,  $C_{1-10}$  alkoxy, hydroxy, halogen and trifluoromethyl;

or a pharmaceutically acceptable salt thereof.

#### A compound of the Formula (VIII): 44.

$$N-(COOR_7)_2$$
 $N$ 
 $R_2$ 
 $X-O-R_1$ 

(VIII)

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X is -CHR3-, -CHR3-alkyl-, or -CHR3-alkenyl-; wherein:

R<sub>1</sub> is selected from the group consisting of:

-aryl;

-alkenyl;

-R<sub>4</sub>-aryl; and

 $-(CH_2)_{1-10}-C \equiv \mathbb{C}-R_{10};$ 

R<sub>2</sub> is selected from the group consisting of:

-hydrogen;

-alkyl;

-alkenyl;

-aryl;

-heteroaryl;

-heterocyclyl:

-alkyl-Y-alkyl;

-alkyl-Y-alkenyl;

-alkyl-Y-aryl; and

- alkyl or alkenyl substituted by one or more substituents selected from the group consisting of:

-OH;

-halogen;

 $-N(R_3)_2;$ 

 $-CO-N(R_3)_2;$ 

-CO- $C_{1-10}$  alkyl;

-CO-O-C<sub>1-10</sub> alkyl;

 $-N_3$ ;

-aryl;

-heteroaryl;

-heterocyclyl;

-CO-aryl; and

-CO-heteroaryl;

10 R<sub>4</sub> is alkyl or alkenyl, which may be interrupted by one or more

-O- groups;

each  $R_3$  is independently H or  $C_{1-10}$  alkyl;

R<sub>10</sub> is selected from the group consisting of H, alkyl, alkenyl, aryl, and

-alkylaryl;

each Y is independently -O or  $-S(O)_{0-2}$ ;

n is 0 to 4;

each  ${\bf R}$  present is independently selected from the group consisting of  $C_{1\text{--}10}$ 

alkyl, C<sub>1-10</sub> alkoxy, hydroxy, halogen and trifluoromethyl; and

R<sub>7</sub> is tert-butyl or benzyl;

or a pharmaceutically acceptable salt thereof.

## 45. A compound of the Formula (IX)

$$R_n$$
 $N$ 
 $R_2$ 
 $X-O-R_1$ 

(IX)

wherein:

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X is -CHR<sub>3</sub>-, -CHR<sub>3</sub>-alkyl-, or -CHR<sub>3</sub>-alkenyl-;

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\mathbf{R}_1 is selected from the group consisting of:
                                  -aryl;
                                  -alkenyl;
                                  -R<sub>4</sub>-aryl; and
 5
                                  -(CH<sub>2</sub>)<sub>1-10</sub>—C≡€H;
                          R<sub>2</sub> is selected from the group consisting of:
                                   -hydrogen;
                                   -alkyl;
                                   -alkenyl;
10
                                   -aryl;
                                   -heteroaryl;
                                   -heterocyclyl;
                                   -alkyl-Y-alkyl;
                                   -alkyl-Y-alkenyl;
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                                   -alkyl-Y-aryl; and
                                   -alkyl or alkenyl substituted by one or more substituents selected
                                   from the group consisting of:
                                            -OH;
                                            -halogen;
                                            -N(R_3)_2;
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                                            -CO-N(R_3)_2;
                                            -CO-C<sub>1-10</sub> alkyl;
                                            -CO-O-C_{1-10} alkyl;
                                            -N_3;
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                                            -aryl;
                                            -heteroaryl;
                                            -heterocyclyl;
                                            -CO-aryl; and
                                            -CO-heteroaryl;
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R<sub>4</sub> is alkyl or alkenyl, which may be interrupted by one or more -O- groups;

each  $\mathbf{R}_3$  is independently H or  $C_{1\text{-}10}$  alkyl; each Y is independently -O- or  $-S(O)_{0\text{-}2}$ -;  $\mathbf{n}$  is 0 to 4; and each  $\mathbf{R}$  present is independently selected from the group consisting of  $C_{1\text{-}10}$  alkyl,  $C_{1\text{-}10}$  alkoxy, hydroxy, halogen and trifluoromethyl; or a pharmaceutically acceptable salt thereof.

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